

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (103000) LINEAR CHARGES, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	21.310	17.718	38.761	35.000	39.204	35.498	39.397	35.683		262.571

Description: The Rocket Motor, 5-inch MK22 Mod 4 (DODIC J143) is a solid-fuel motor used for towing M58, M59, M68A2, and M69 Linear Demolition Charges (LDCs) into the air over obstacles or minefields for breaching, training, or test applications. It has a tractor motor design which incorporates two forward mounted, rearward facing, exhaust nozzles which are threaded into the motor headcap.

The Charge, Demolition High Explosive Linear M58A4 (DODIC M913) is a trailer-mounted and rocket-towed linear demolition charge designed to provide a clear path for combat vehicles during minefield and barrier breaching operations. The M58 is capable of clearing a path up to 46-feet wide and 350-feet long through a minefield. The arresting cable is a nylon rope that provides a standoff distance between the vehicle and the explosion. The demolition section consists primarily of a 3/4-inch nylon core rope, 700 composition C4 demolition blocks, and two strands of pentaerythritol tetranitrate (PETN) detonating cord. The blocks are sheathed with an outer layer of nylon. The two strands of detonating cord pass through the entire length of the demolition section. The demolition section and the arresting cable are coiled inside the container. Most of the arresting cable is beneath the demolition section. The fuze, which is packaged, is normally on top of the coiled demolition section.

The Charge, Demolition Inert Linear M68A2 (DODIC M914) is a trailer-mounted and rocket-towed inert linear demolition charge designed to simulate the launch and deployment characteristics of the M58A4 linear demolition charge for the purpose of training. The inert linear demolition charge is an exact replica of the M58A4 linear demolition charge (i.e., same size, shape, and weight). The arresting cable is a nylon rope that provides a standoff distance between the vehicle and the inert demolition section. The inert demolition section is composed of rubber blocks instead of C4 blocks and a M1147 Inert Fuze is used in place of the M1134 Series Fuze. The blocks are sheathed with an outer layer of nylon.

The Linear Demolition Charge M59A1 (DODIC ML25) is a rocket-towed, linear demolition charge designed to provide a clear path for combat vehicles during minefield and barrier breaching operations. The M59 is capable of clearing a path up to 46-feet wide and 350-feet long through a minefield. The arresting cable is a nylon rope that provides a standoff distance between the vehicle and the explosion. The demolition section consists primarily of a 3/4-inch nylon core rope, 700 composition C4 demolition blocks, and two strands of pentaerythritol tetranitrate (PETN) detonating cord. The blocks are sheathed with an outer layer of nylon. The two strands of detonating cord pass through the entire length of the demolition section. The demolition section and the arresting cable are coiled inside the container. Most of the arresting cable is beneath the demolition section. The fuze, which is packaged, is normally on top of the coiled demolition section.

The MK7 MOD2 mine clearing system, Anti-Personnel Obstacle Breaching System (APOBS) (DODIC MN79) consists of a line charge assembly and a fuze/rocket motor assembly. This item is a lightweight, self-contained, one-shot expendable system that is transported and deployed by a two-man team. APOBS uses the MK126 MOD1 rocket motor to propel a line charge over the obstacle. It is employed in combat operations to breach a lane through wire and anti-personnel mine obstacles.

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (103000) LINEAR CHARGES, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
ROCKET MOTOR, 5 INCH (DODIC J143)													
LOAD ASSEMBLE & PACK		1.628	229	7109.17	1.630	221	7375.57						
EC INHIBITING TAPE (LB)		0.019	631	30.11	0.019	609	31.20						
PROPELLANT 5-5 (LB)		0.271	16,826	16.11	0.271	16,238	16.69						
CHG DEMO LINEAR HE (DODIC M913)													
LOAD ASSEMBLE & PACK		2.919	211	13836.97	2.464	157	15694.270	1.663	101	16465.35			
COMP C4 CLASS 3 (LB)		3.292	358,700	9.18	2.779	266,900	10.41	1.875	171,700	10.92			
FUZE, ELECTRIC M1134A4 (EA)		0.354	211	1681.19	0.299	157	1904.46	0.202	101	2000.00			
CHG DEMO LINEAR INERT (DODIC M914)													
COMPLETE ROUND								0.375	15	25000.00			
CHG DEMO LINEAR HE LVT (DODIC ML25)													
LOAD ASSEMBLE & PACK		5.485	318	17248.43	3.486	204	17088.24						
COMP C4 CLASS 3 (LB)		4.324	556,500	7.77	2.748	357,000	7.70						
FUZE, ELECTRIC M1134A4 (EA)		0.588	318	1849.06	0.374	204	1833.33						
APERS OBSTACLE BREACHING SYS (DODIC MN79)													
LOAD ASSEMBLE & PACK		3.299	354	9319.21	4.117	500.00	8234.00	32.02	3,246	9864.45	32.02	3,154	10152.19
PRODUCT													
ACCEPTANCE TESTING		0.046			0.033			0.011					
INTERIM TRANSPORTATION		0.005			0.005								
PRODUCTION ENGINEERING		0.364			0.376			1.999			1.941		
QUALITY ASSURANCE		0.283			0.283			1.080			1.039		
GOVERNMENT FURNISHED MATERIAL		-1.567			-1.166			-0.464					
TOTAL		21.310			17.718			38.761			35.000		

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (103000) LINEAR CHARGES, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
ROCKET MOTOR, 5 INCH (DODIC J143)										
LAP COMPLETE ROUND J143										
FY 2004	229	7109.17	JMC, ROCK ISLAND, IL	C/FFP	NSWC, INDIAN HEAD, MD	OCT 03	DEC 03	OCT 05	YES	
FY 2005	221	7375.57	JMC, ROCK ISLAND, IL	C/FFP	NSWC, INDIAN HEAD, MD	OCT 04	DEC 04	OCT 06	YES	
EC INHIBITING TAPE (LB)										
FY 2004	631	30.11	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, RADFORD, VA	OCT 03	DEC 03	OCT 05	YES	
FY 2005	609	31.20	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, RADFORD, VA	OCT 04	DEC 04	OCT 06	YES	
PROPELLANT N-5 (LB)										
FY 2004	16,826	16.11	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 03	DEC 03	OCT 05	YES	
FY 2005	16,238	16.69	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 04	DEC 04	OCT 06	YES	
CHG DEMO LINEAR (DODIC M913)										
LAP COMPLETE ROUND M913										
FY 2004	211	13836.97	JMC, ROCK ISLAND, IL	C/FFP	American Ordnance MILAN, TN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	157	15694.27	JMC, ROCK ISLAND, IL	C/FFP	American Ordnance MILAN, TN	OCT 04	MAR 05	AUG 06	YES	
FY 2006	101	16465.35	JMC, ROCK ISLAND, IL	C/FFP	American Ordnance MILAN, TN	UNKNOWN	MAR 06	AUG 07	YES	
COMP C4 CLASS 3 (LB)										
FY 2004	358,700	9.18	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	266,900	10.41	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 04	MAR 05	AUG 06	YES	
FY 2006	171,700	10.92	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	UNKNOWN	MAR 06	AUG 07	YES	
FUZE, ELECTRIC M1134A4 (EA)										
FY 2004	211	1681.19	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP, CRANE, IN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	157	1904.46	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP, CRANE, IN	OCT 04	MAR 05	AUG 06	YES	
FY 2006	101	2000.00	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP, CRANE, IN	UNKNOWN	MAR 06	AUG 07	YES	
CHG DEMO LINEAR INERT (DODIC M914)										
LAP COMPLETE ROUND M914										
FY 2007	15	25000.00	JMC, ROCK ISLAND, IL	C/FFP	American Ordnance MILAN, TN	UNKNOWN	APR 06	MAY 07	NO	

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WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
CHG DEMO LINEAR (DODIC ML25)										
LAP COMPLETE ROUND ML25										
FY 2004	318	17248.43	JMC, ROCK ISLAND, IL	C/FFP	AMERICAN ORDNANCE MILAN, TN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	204	17088.24	JMC, ROCK ISLAND, IL	C/FFP	AMERICAN ORDNANCE MILAN, TN	OCT 04	MAR 05	AUG 06	YES	
COMP C4 CLASS 3 (LB)										
FY 2004	556,500	7.77	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	357,000	7.70	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 04	MAR 05	AUG 06	YES	
FUZE, ELECTRIC M1134A4 (EA)										
FY 2004	318	1849.06	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP CRANE, IN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	204	1833.33	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP CRANE, IN	OCT 04	MAR 05	AUG 06	YES	
APERS OBSTACLE BREACHING SYS (DODIC MN79)										
LAP COMPLETE ROUND MN79										
FY 2004	354	9319.21	MCSC, QUANTICO, VA	C/FFP	ENSIGN-BICKFORD GRAHAM, KY	OCT 03	DEC 03	JUN 04	YES	
FY 2005	500	8234.00	MCSC, QUANTICO, VA	C/FFP	ENSIGN-BICKFORD GRAHAM, KY	OCT 04	DEC 04	JUN 05	YES	
FY 2006	3,246	9873.57	MCSC, QUANTICO, VA	C/FFP	UNKNOWN	UNKNOWN	DEC 05	JUN 06	YES	
FY 2007	3,154	10158.63	MCSC, QUANTICO, VA	C/FFP	UNKNOWN	UNKNOWN	DEC 06	JUN 07	YES	

Exhibit P-5a

Exhibit P-21, Production Schedule	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	Weapon System	P-1 Line Item DODIC and Nomenclature: (103000) DODIC: MN79, APERS OBSTACLE BREACHING SYS
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES				Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT		
MN79	ENSIGN-BICKFORD SIMSBURY, CT	0.1	1.5	3	3	3	6	6	9	K

Fiscal Year 2008	Fiscal Year 2009
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Item	Calendar Year 2008												Calendar Year 2009																	
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
MN79	04	MC	0.35	0.35	0.00																									0.00
	05	MC	0.50	0.50	0.00																									0.00
	06	MC	3.25	3.25	0.00																									0.00
	07	MC	3.15	1.04	2.11	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.29																0.00	

Fiscal Year 2010	Fiscal Year 2011
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Item	Calendar Year 2010												Calendar Year 2011																	
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
MN79	04	MC	0.35	0.35	0.00																									0.00
	05	MC	0.50	0.50	0.00																									0.00
	06	MC	3.25	3.25	0.00																									0.00
	07	MC	3.15	3.15	0.00																									0.00